

**SPECTRA**  
**WATERMAKERS**

**Making Fresh Water Worldwide**



**Watermakers**  
**Dissalatori**

**Wasseraufbereiter**  
**Desalinizadora**

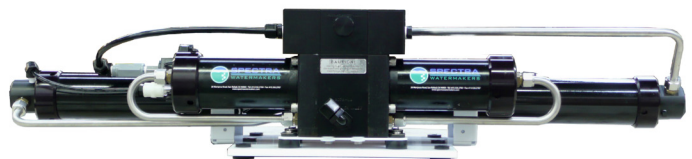
**Dessinalinisateur**



**S**pectra watermakers manufactures the finest quality, most efficient, quietest and easiest to use water makers in the world. You have a sizable investment in your yacht so you want equipment that works reliably when you need it. With support from dealers in every part of the globe, you will never be left stranded.



**Let us worry about your water supply.  
You have more important things to think about**



Spectra builds a full range of watermakers from 150 to 10,000 Gallons a day. (570– 37,000 LPD)



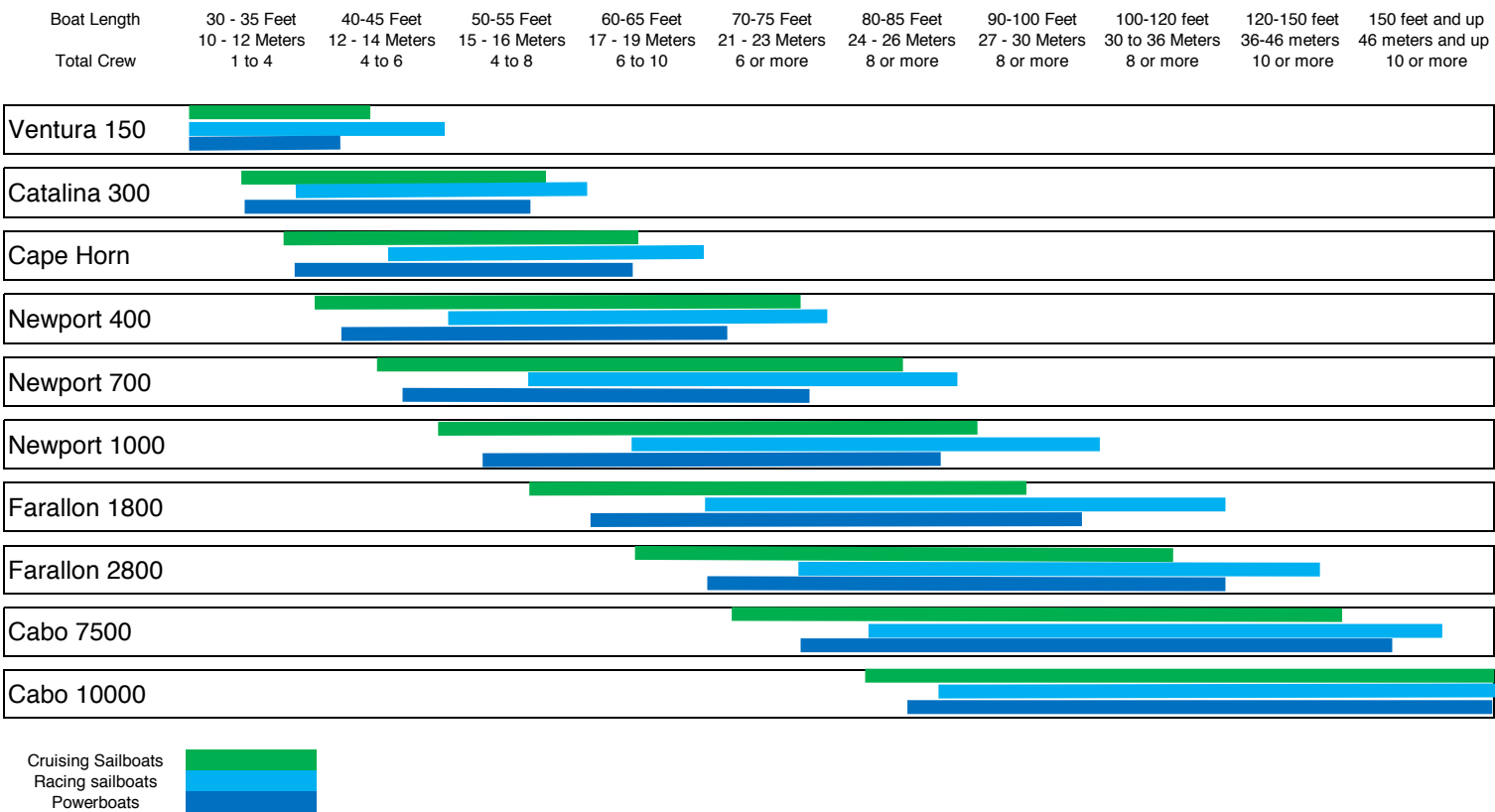
# Having a Spectra Watermaker aboard ...

You and your family are boating to enjoy life to the fullest!

Having all the comforts of home means all the water you want to be comfortable and clean. A Spectra water maker extends your cruising range as you no longer have to stop to top up your water tanks and leaves more room aboard for fuel. Not only does water from a Spectra taste great, but it is safe, will protect your yacht's finish and reduces your maintenance costs.



## How Much Water Do You Need? Spectra Watermakers Sizing Chart



Note: Larger vessels often install multiple machines for additional capacity and redundancy

**Why Spectra?** Spectra watermakers are the most advanced, well engineered water makers on the planet. We pioneered energy efficient machines over 12 years ago and have stayed the technology leader since. So why go with Spectra?

- *Super efficient, which allows for smaller, lighter generators and battery banks*
- *Most sophisticated, simple to use control system. One button operation*
- *Quietest, most vibration free operation of any water maker*
- *Easy, quick installation with a modular construction and complete install kits*
- *No pressure control knobs to adjust. Truly fully automated*
- *Systems available with two speeds for power management.*
- *With the exclusive Zbrane system, pickling is eliminated!*
- *All AC machines have standard “soft starting” for operating with an inverter*
- *World wide dealer network as well as roaming representatives*
- *Composite construction for superb corrosion resistance*



## **Spectra MPC-5000**

Tired of being nickel and dimed to death by “extras” and “options” when you buy a piece of major equipment? Integrated into every MPC watermaker system is an automatic fresh water flush system. Not an additional option like our competitors! The MPC controller will monitor system pressure, fresh water production, potable water quality, filter condition and run time hours. No other brand controller offers all these great features in a single package! An industrial quality three way valve rejects poor quality water overboard until the control senses good, clean drinking water, and then automatically diverts it into your tank! Leaving the boat for awhile? Push auto-store, and leave. Simple as that! There is no complicated set up or programming required. Just press a button and go!

***All of this comes standard with every MPC 5000 system!***





# VENTURA 150/200

The Spectra Ventura series systems are engineered for the smaller vessel. The Ventura 150 and the new Ventura 200T are energy efficient, light weight, and self regulating. The Ventura is an affordable, compact watermaker with all the great features Spectra is known for. The Ventura series is easy to install and operate. It quietly and efficiently delivers up to 8 gallons (30 liters) of fresh product water per hour! All Ventura models operate on either 12V or 24V DC. No generator is required!

## All Ventura Series Spectra Watermakers feature:

- *Low power consumption. Can be run from a small generator, solar or batteries.*
- *Compact modules that are easy to install.*
- *Composite construction for superb corrosion resistance*
- *Commercial grade diaphragm pumps with run-dry protection*
- *Complete systems with installation kits to save time and money*
- *Extensive dealer and service network*
- *Spectra's world renowned customer service and support*



## Ventura Deluxe

The Ventura is available in two models. The Deluxe version is built for the hands-on operator as a capable workhorse. The Deluxe series comes with all the instrumentation and reliability you need to make plenty of safe, delicious drinking water.



## Ventura with MPC-5000 Controller

The most advanced watermaker control available! Simple one button operation!

All Ventura functions are controlled and displayed with an attractive control panel located in a convenient place anywhere on the vessel.



# Cape Horn Xtreme 330

## *A watermaker for the most extreme conditions!*

The Cape Horn is the choice for serious offshore racing campaigns such as the Volvo Cup, Challenge cup and all other grand prix offshore events. It is perfect for the serious offshore cruiser that wants the maximum water in a robust and extremely reliable package. The Cape Horn system will never fail to produce water regardless of the sea conditions, and two diaphragm feed pumps cannot be damaged by running dry. This versatile system has the option of running on a single feed pump for high efficiency, or two pumps for high capacity. There are no complicated electronics, only rugged mechanical controls and gauges. With only three modules to



mount, installation is a breeze. The Cape Horn Xtreme is available in either 12V or 24V. Truly a watermaker for the most extreme conditions!

## *Every Cape Horn Xtreme features:*

- *Low power consumption. Can be run from a small generator, batteries or solar.*
- *Compact modules that are easy to install.*
- *Dual feed pump operation for redundancy and efficiency.*
- *Composite construction for superb corrosion resistance.*
- *Commercial grade diaphragm pumps with run-dry protection.*
- *Complete systems with installation kits to save time and money.*
- *Extensive dealer and service network.*
- *Spectra's world renowned customer service and support.*





# Catalina 300 MKII

## *Simple. Quiet. Efficient.*

Producing over 12 gallons (46L) of water an hour, the Catalina 300 MKII is perfect for the midsize yacht with 2 to 4 people on board. Using the Spectra Magdrive feed water pump, the Catalina is extremely quiet, efficient and reliable. Powered by 12V or 24V DC, the unit can be run without the need for an AC generator. Manufactured from the finest marine grade materials, the Catalina will give you years of quiet, trouble-free service.

## *Every Catalina 300 MKII features:*

- *Standard MPC 5000 Control!*
- *Push button operation - no adjustments required.*
- *Spectra's exclusive filter condition monitoring.*
- *Quiet and vibration free operation.*
- *Low power consumption. Can be run from a small generator or batteries.*
- *Compact modules that are easy to install.*
- *Revolutionary backwash system reduces filter replacement and maintenance.*
- *Complete systems with installation kits save time and money.*
- *Extensive dealer and service network.*
- *Spectra's world renowned customer service and support.*



## *Featuring the MPC-5000 Controller*



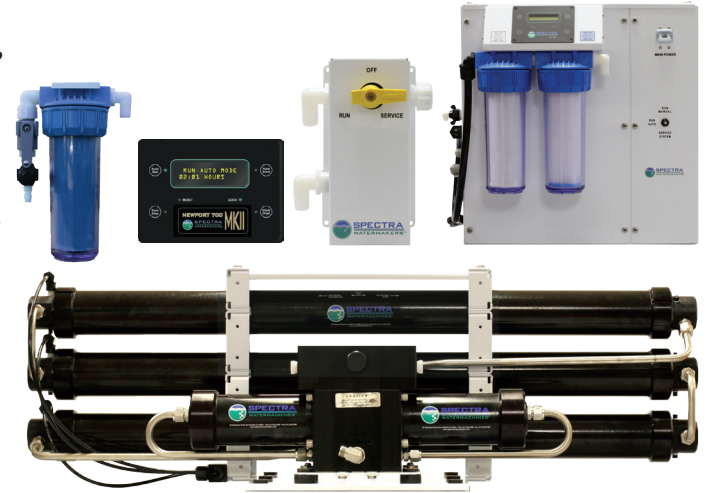
Simple one button operation, the most advanced water-maker control available! All the Catalina's functions are controlled and displayed with an attractive control panel located in a convenient place anywhere on the vessel.

Auto store and freshwater backwashing system are standard features on every MPC 5000!



# Newport MKII 400/700/1000

The **Newport** series are the most advanced, automated and easy to use watermakers available. Engineered in three capacities all Newport systems come standard with our exclusive MPC 5000 control for one touch operation. No knobs or pressure regulators to control. The watermaker can be run from your navigation station or flybridge so there are no trips into a hot engine room required!



## ***Every Newport MKII system features:***

- *Standard MPC 5000 Control!*
- *Push button operation - No adjustments required.*
- *Spectra's exclusive filter condition monitoring.*
- *Quiet and vibration free operation.*
- *Low power consumption - can be run from a small generator, inverter or batteries.*
- *High and low speed operation for power management and mission critical operation.*
- *Compact modules that are easy to install.*
- *Revolutionary backwash system reduces filter replacement and maintenance.*
- *Complete systems with installation kits to save time and money.*
- *Extensive dealer and service network.*
- *Spectra's world renowned customer service and support.*

***If you want one  
of the finest, most  
reliable watermakers  
available, choose a  
Spectra Newport!***

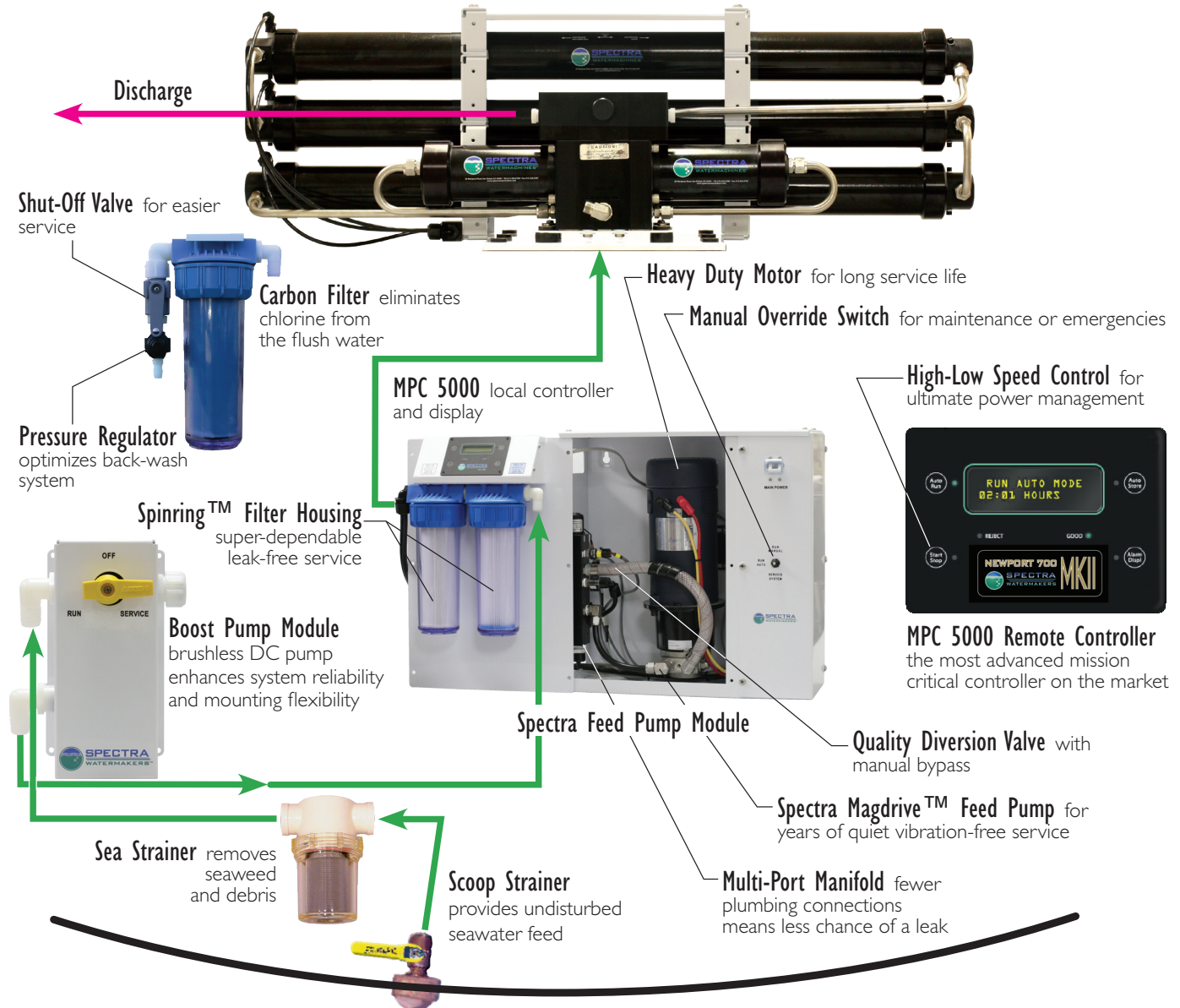




# Newport System Layout

## Spectra Clark Pump Intensifier & Membrane

All high-pressure connections made at factory to speed installation

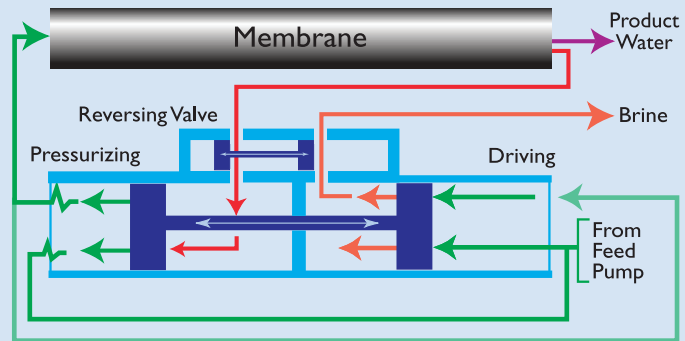


## Spectra's Exclusive Intensifier – Quiet, Efficient, Reliable

### Spectra's Exclusive Two Stage Intensifier System

*Revolutionary Watermaking Development*

In 1997 Spectra pioneered a new and highly efficient watermaker system. The Spectra Intensifier reduces energy consumption by as much as 75% over conventional systems. Units are constructed of modern composites and engineered plastics to deliver many years of quiet, reliable service. Spectra has tens of thousands of hours of field experience and a worldwide service network.



**Z-Brane™ Completes Your Newport installation.** Z-Brane™ keeps your system clean without chemicals. Forget having to “pickle” your watermaker, complete your Newport installation with a Z-Brane electronic treatment system. The revolutionary Z-Brane technology will keep your MKII clean and free of bio-fouling and scaling. The Z-Brane draws only milliamps of power and silently protects your system when you are away. The Z-Brane system eliminates the need for harsh chemicals which shorten the life of your membranes.



# Farallon 1800, 2800

## With Pearson Pump Technology

Finally a Spectra water maker for large vessels! The Farallon has all of the advanced features of the popular Newport series, but with the capacity required for larger vessels. The Farallon is built with the new Pearson Pump, a revolutionary reciprocating pump design. The Pearson Pump combines the high pressure feed pump and brine stream energy recovery into a single compact unit. The Farallon is simply the most efficient, reliable and automated water maker on the planet! The membranes and system control enclosure may be remotely located for installation versatility. Equipped with a local and remote MPC 5000 touchpad display you can control and monitor your Farallon from anywhere in your vessel! With Spectra's exclusive, fully automated controls there are no pressure controls or knobs to adjust



### Every Farallon Series System features:

- *Standard MPC 5000 Control!*
- *Push button operation - No adjustments required.*
- *Spectra's exclusive filter condition monitoring.*
- *Quiet and vibration free operation.*
- *Low power consumption - can be run from a small generator, inverter or batteries.*
- *High and low speed operation for power management and mission critical operation.*
- *Designed into a single enclosure for quick and easy installation.*
- *Revolutionary backwash system reduces filter replacement and maintenance.*
- *Complete systems with installation kits to save time and money.*
- *Extensive dealer and service network.*
- *Spectra's world renowned customer service and support.*





# Farallon System Layout

The “Energy Recovery” feature of **The Spectra Pearson Pump™** takes the energy entrained in the brine reject stream from the RO membranes and recaptures up to 80%, dramatically increasing the overall efficiency and bringing energy requirements down to an impressive 9-13 Watt Hours per Gallon (2.6 KWH per 1000L), a major improvement for shipboard water desalination.

The pump head is manufactured from engineered composites and super-duplex stainless steel for extreme corrosion resistance, and the innovative oil filtration systems allows for long maintenance intervals.



Everyone is using the term “green” these days, but Spectra has been building the most energy efficient marine watermakers for 10 years! Our unique reverse osmosis system uses as little as a third of the energy to produce a gallon of water as the competition. That translates into a big help with power management and a lot less fuel consumption. Combine that with easy installation and operation, low maintenance and a worldwide network of factory trained dealers the choice of which watermaker to buy becomes obvious. Even if the “green” isn’t.



# Cabo 7,500, 10,000

## With Pearson Pump Technology

The **Cabo 7,500** and the **Cabo 10,000** are for the megayacht and commercial vessel that need the ultimate in advanced desalination technology. Utilizing the SP-20 Pearson Pump these units produce either 7,500 GPD (28,000LPD) or 10,000 GPD (37,500 LPD). The SP-20 Pearson Pump can desalinate water with amazingly little energy; as low as 8 KWH per 1000 gallons or 2KWH per 1000L.



Each Cabo Series system is completely customizable. With a variety of options and equipment, Spectra will design a complete operating system to suit your specific needs.

### Choose:

- Staged Multi-Media Filters
- Ultra Filtration
- Chemical Antiscalant Pre-Treatment
- Ultraviolet Disinfection
- Potable Water Chlorination System for long term storage
- PLC Controls
- AC Voltage single and three phase available

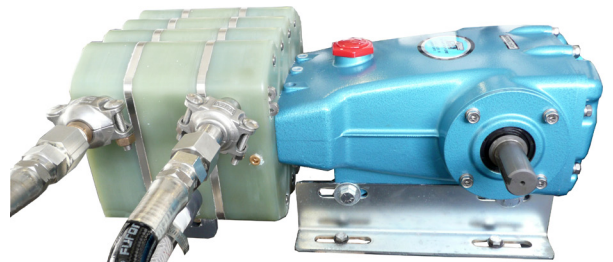




## *Spectra will custom engineer a system specifically for your vessel*



- Sea water to 45,000 PPM
- Permeate at less than 500 PPM TDS
- Booster Pump
- Media Filters with Backwash Pump
- Chemical Injection
- Permeate Flush
- Cleaning System
- PLC Controller with Color Touch Screen
- Two pass systems for hull wash down
- UF Pretreatment systems



**SP-20 Pearson Pump**

The Spectra team has been in the marine industry for 30 years and understands the demands imposed by the marine environment. We can build you the finest product to your specifications.





# Z-Brane™

## Electronic watermaker storage system

### Z-Brane™ Completes Your Watermaker installation

Spectra's Z-Brane system keeps your water maker's membrane clean and stable without the use of chemicals. You'll never have to "pickle" your watermaker again! Complete your Spectra installation with a Z-Brane electronic treatment system. The revolutionary Z-Brane technology will keep your Spectra clean and free of bio-fouling and scaling. The Z-Brane draws only milliamps of power and silently protects your system when you are away. The Z-Brane system eliminates the need for harsh chemicals which can shorten the life of your membranes.



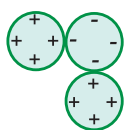
No more hoses, buckets or messy chemicals. The inconvenience of having to pump storage chemicals to a water maker during lay-up periods is gone forever! Spectra's new, environmentally sound, technology will set you free to enjoy cruising and the better things in life, rather than spending time in the bilge worrying about membrane storage.

#### ***A Spectra Exclusive Product!***

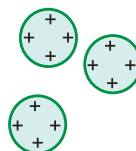
**Compatible with:**  
**Ventura 150/200T • Cape Horn Xtreme**  
**Catalina MKII • Newport MKII Series**

*Retrofit kits are available for many systems. Contact your local Spectra agent for more details!*

### ***How Z-Brane Technology Works***



Under normal circumstances colloidal particles attract each other allowing micro-organisms grow.



Z-Brane causes the colloidal particles to repel thus stopping the formation of biofouling.

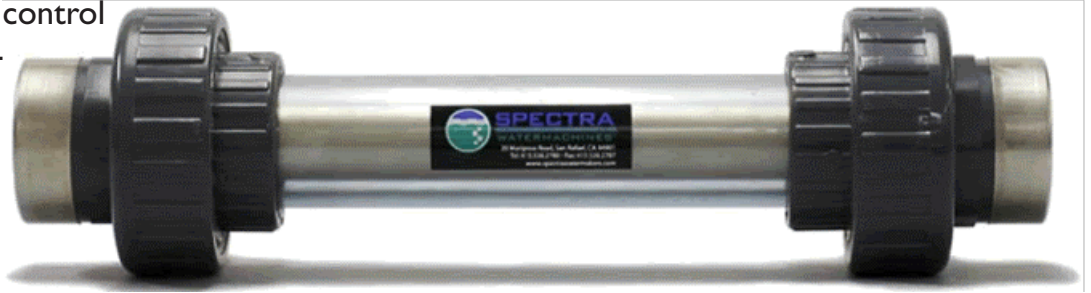
As water enters into the membrane pressure vessel chamber, particles exposed to the powerful electrostatic field of the Z-Rod electrode experience an elevation in surface charge. This positive charge prevents the particles from approaching close enough to bond to each other or nearby surfaces. This prevents scale, sludge and biological fouling. Wetted surfaces also form a strong boundary layer which prevents particles from attaching. Bacteria are unable to attach, absorb nutrition, or replicate into colonies.

Z-Brane will not keep the system from freezing in sub-zero temperatures. Winterizing may still be required in some circumstances. Z-Brane™ is covered by US Patent # 7,220,555.



# Bio Guard™

The New Spectra Bio-Guard is an easy to install anti-fouling system designed for Marine Air-conditioning systems. The Spectra Bio-Guard is a powerful tool to assist in keeping pipes, hoses and heat exchangers of your HVAC system free of marine growth and barnacles. Using a specially formulated metallic alloy, the Bio-Guard leeches small amounts of ions into the seawater cooling system that retards marine growth. No electrical connections or control systems are necessary. The Bio-Guard installs in line into your cooling water supply and starts going to work immediately eliminating and preventing marine growth.



A clear plastic housing makes it easy to see when your Bio-Guard needs replacement. The alloy module takes only minutes to replace.

Finally, a simple, safe and affordable solution to prevent the need for expensive caustic acid washing that shortens the life of your HVAC or refrigeration system.

The Bio-Guard comes in four standard sizes and must be matched properly to your HVAC cooling water system. Larger units for special applications are available, please contact the factory.

## ***The Bio-Guard is patent pending***

Bio-Guard model	Required flow	Air-conditioning Capacity	
BG-500	250-500 GPH	12,000-24,000 BTU	¾" NPT
BG-1000	500-1000 GPH	24,000-48,000 BTU	1" NPT
BG-1500	1000-1500 GPH	48,000-75,000 BTU	1 ¼" NPT
BG-3000	1500-3000 GPH	75,000-140,000 BTU	1 ½" NPT

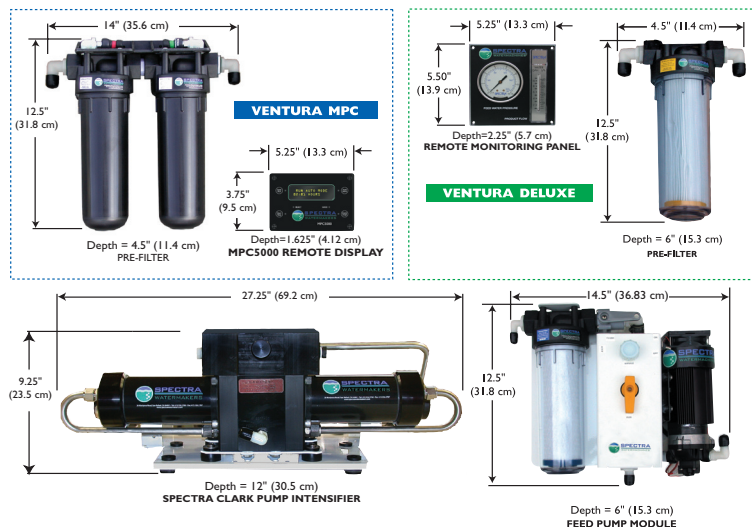


***Spectra builds time-saving products because you have better things to do!***



# Dimensions & Specifications

## Ventura



WATER PRODUCTION at 35,000 PPM	Gallons per Day / Hr	(Liters per Day / Hr)
<b>V150</b> Output with 77°F/25°C seawater Designed for all feedwater temperatures	150 / 6.3	(568 / 24)
<b>V200T</b> Designed for feedwater temperatures above 50°F/10°C	200 / 8.3	(750 / 31)

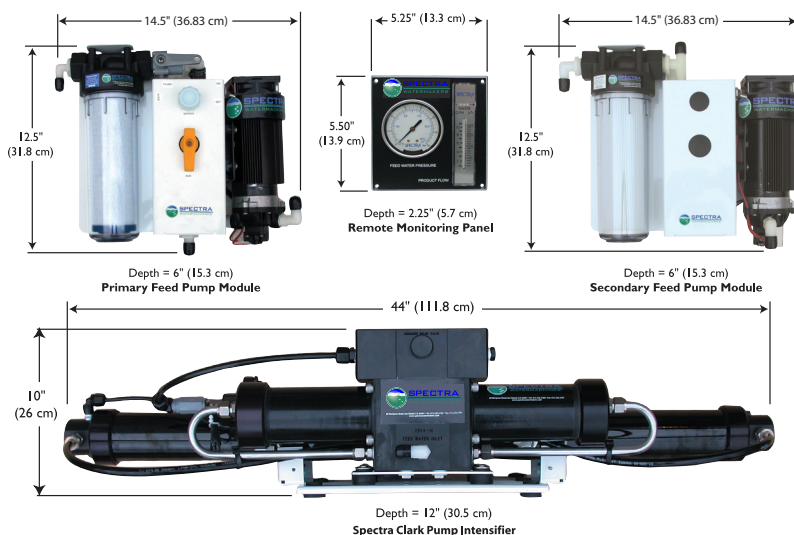
### SYSTEM TOTAL WEIGHT (Dry)

Ventura 150	65 Lb (29.5 kg)
Ventura 150 MPC	67 Lb (30.4 kg)
Ventura 200T	65 Lb (29.5 kg)
Ventura 200T MPC	67 Lb (30.4 kg)

### POWER REQUIREMENTS

V150 Current Draw 12V=9 Amps • 24V = 4.5Amps
V200T Current Draw 12V=10 Amps • 24V = 5 Amps
Watt/Hr per Gallon V150 17
Watt/Hr per Gallon V200T 16

## Cape Horn



WATER PRODUCTION	Gallons per Day / Hr	(Liters per Day / Hr)
Output with 77°F/25°C seawater	336 / 14	(1272 / 53)
Rated at 77°F (25°C) Seawater Temperature at 35,000 PPM Dissolved Solids +/-15%		

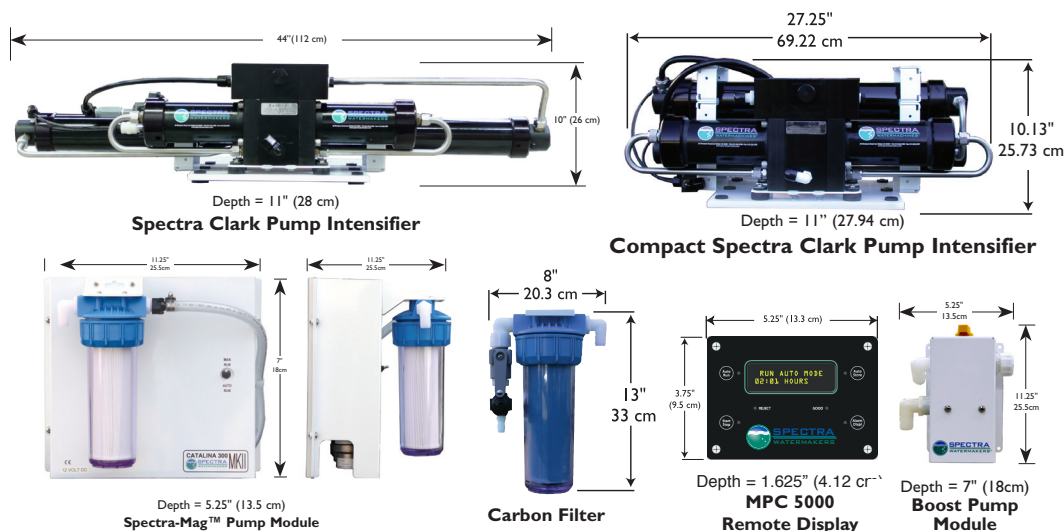
### SYSTEM TOTAL WEIGHT (Dry)

Cape Horn Extreme  
65 LB (29.5 kilos) About the same as 8 gallons  
(24 liters) of fresh water!

### POWER REQUIREMENTS

Pump Horsepower	1/8 Each
Watt/Hr per Gallon	16
Amp/Hr per Gallon (12 VDC)	1.3
Current Draw	18 Amps (12VDC) 9 Amps (24VDC)

## Catalina



WATER PRODUCTION	Gallons per Day / Hr	(Liters per Day / Hr)
Output with 77°F/25°C seawater (Output rated at 77° F (25°C) +/- 15%)	300 / 12.5	(1,130 / 47)

### POWER REQUIREMENTS

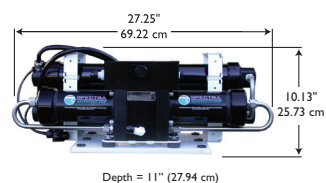
Watt/Hr per Gallon	15
Current Draw (12 VDC)	15 Amps
Current Draw (24 VDC)	7.5 Amps

### SYSTEM TOTAL WEIGHT (Dry)

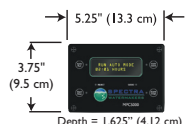
Catalina 300 MPC	91lbs (41.5kg)
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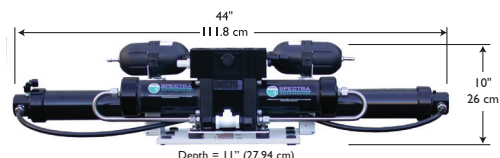
# Newport 400



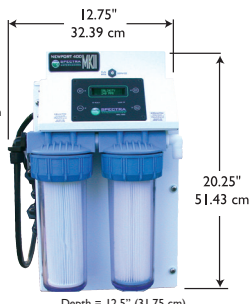
Depth = 11" (27.94 cm)  
**Compact Spectra Clark Pump Intensifier**



Depth = 1.625" (4.12 cm)  
**MPC-5000 Remote Display**



Depth = 11" (27.94 cm)  
**Spectra Clark Pump Intensifier**



Depth = 12.5" (31.75 cm)  
**Feed Pump Module**



Depth = 6" (15.24 cm)  
**Carbon Filter**



Depth = 7" (18cm)  
**Boost Pump Module**

## WATER PRODUCTION

Newport 400 MKII & Newport 400 MKIIC  
400 GPD (1500 LPD) 16.5 GPH (62 LPH)  
(Rated at 77°F (25°C) Seawater Temperature at 35,000 PPM  
Dissolved Solids +/-15%)

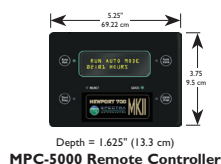
## POWER REQUIREMENTS

Newport 400 MKII & Newport 400 MKIIC  
Current Draw 12VDC/26A or 24 VDC/13A  
Watt/HR per Gal. 17 Watt hours per gal.

## SYSTEM TOTAL WEIGHT (Dry)

Newport 400 MKII 76 Lbs (34.47 kg) \*  
Newport 400 MKIIC 79 Lbs (35.83 kg) \*  
\* Add 17 lbs (7.7 kg) for all AC Systems

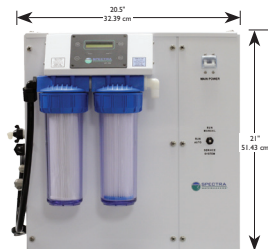
# Newport 700 / 1000



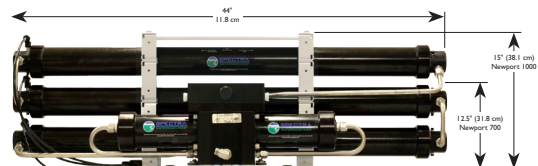
Depth = 1.625" (13.3 cm)  
**MPC-5000 Remote Controller**



Depth = 6" (15.24 cm)  
**Carbon Filter**



Depth = 13.5" (31.75 cm)  
**Feed Pump Module**



Depth = 12" (30.5 cm)  
**Spectra Clark Pump Intensifier**



Depth = 7.75" (17.78 cm)  
**Boost Pump Module**

## RATED CAPACITY

Newport 700 MKII GPD (2600 LPD) 29 GPH (110 LPH)  
Newport 1000 MKII GPD (3700 LPD) 41 GPH (156 LPH)  
(Rated at 77°F (25°C) Seawater Temperature at 35,000 PPM  
Dissolved Solids +/-15%)

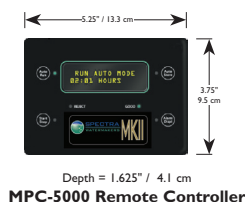
## POWER REQUIREMENTS

Newport 700 MKII Current Draw 24 VDC, 24 Amps, 700 Watts/AC  
Newport 1000 MKII Current Draw 24 VDC, 28 Amps, 750 Watts/AC  
Watt/Hr per Gal. (DC System) 18 Watt hours per Gal.  
Note: All AC Systems use Soft Start VFD Drives

## SYSTEM WEIGHT (DRY)

NP700 MKII - 152 lbs.  
NP1000 MKII - 157 lbs.  
Add 18 lbs. for A.C. Systems

# Farallon



Depth = 1.625" / 4.1 cm  
**MPC-5000 Remote Controller**



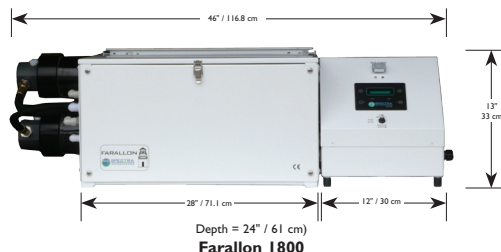
Depth = 8.5" / 21.6 cm  
**Carbon Filter**



Depth = 8.5" / 21.6 cm  
**5 & 20 Micron Filters**



**Boost Pump**  
7.5" H x 14 L



Depth = 24" / 61 cm  
**Farallon 1800**



Depth = 7.75" (17.78 cm)  
**Boost Pump Module**

## WATER PRODUCTION

Farallon 1800: 1800 / 75 (Gals. per Day/Hour)  
6,814 / 284 (Litres per day/hour)  
Farallon 2800: 2800 / 120 (Gals. per Day/Hour)  
10,600 / 454 (Litres per day/hour)  
(Rated at 77°F (25°C) Seawater Temperature at 35,000 PPM  
Dissolved Solids +/-15%)

## POWER REQUIREMENTS

Total Power Requirements	Farallon 1800	Farallon 2800
Watt/hr per gallon/litre	13.1 Watts/3.46	10 Watts/2.6
24Volts DC	29 amps	
Current draw 110 Volts AC 50/60 hertz	7.5 amps	N/A
Current draw 220 Volts AC 50/60 hertz	3.8 amps	5.5 amps
Current draw 240 Volts AC 50/60 hertz	3.5 amps	5 amps

## SYSTEM WEIGHT (DRY)

Farallon 1800 with controls - 225 lbs/102Kg.  
Farallon 2800 with controls - 260 lbs/118Kg.



# Options and Accessories

Whether you are cruising for a week, a month, or around the world, it is good to have Spectra approved filters and spare parts on board. We have cruising kits available for all of our water makers so that you can keep your machine in tip top condition. Spectra systems come complete! We don't charge extra for installation kits, fresh water flushing systems or service valves .



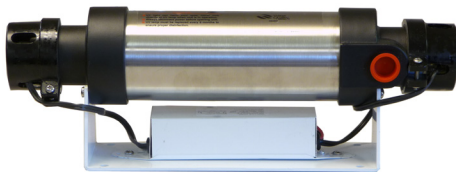
**Protect your water maker investment** by buying the finest quality spares and filters from Spectra. We know that there are cheaper spares available, but a Spectra part will give you the assurance of years of trouble free service and protect your comprehensive warranty. Each cruising kit is tailored to your particular machine. For an extended cruise consult your service manual or contact one of our technical representatives to build a spare parts kit for you.



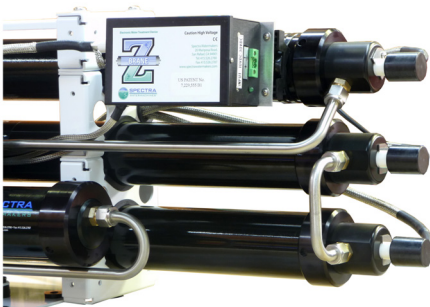




**Commercial size filter kits** can extend your service intervals and save you time and money in the long run.



**UV sterilizers** will kill all bacteria and virus that pass through. It will insure that your drinking water is totally safe whether it comes from the dock or your water maker.



Tired of pickling your watermaker? Consider the patented **Z-Brane Electronic Water Treatment System** see page 15.



**Carbon filters** can take out any bad taste or odors that may find their way into your tanks.



**Chlorine injection systems** can prevent biological growth that may occur in your tanks and is recommended for long term water storage.



**Media filters** can take care of some of the most demanding filtration problems. Spectra has developed an automated dual filtration system that will meet the most stringent military field requirements. One filter is being continuously backwashed while the other is filtering the raw water to your watermaker. Never any downtime and minimal use of disposable filters are required. Designed for the Farallon and Cabo series.





# SPECTRA

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